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Applicant: Babak HASSIBI, et al.	Case No.: 29250-000636/US
Serial No.: 10/077,849	Filing Date: February 20, 2002
Title: CAYLEY-ENCODATION OF UNITARY MATRICES FOR DIFFERENTIAL COMMUNICATION	
Please acknowledge receipt of:	
<ul style="list-style-type: none"> • Transmittal • Fee Transmittal • Amendment • Exhibit 	
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Due: 2006-07-24	Atty: TSA/cm Date Filed: 07-21-2006

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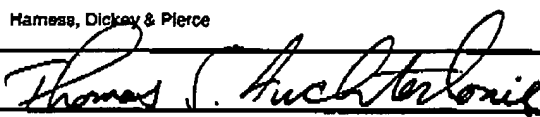
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TRANSMITTAL FORM	Application Number	10/077,849
	Filing Date	February 20, 2002
	First Named Inventor	Babak HASSIBI et al.
	Art Unit	2611
	Examiner Name	Lawrence B. Williams
(to be used for all correspondence after initial filing)		
Total Number of Pages in This Submission	Attorney Docket Number	29250-000636/US

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> For Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) ____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Exhibit
Remarks Mail Stop: AMENDMENT		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm	Harness, Dickey & Pierce		
Signature			
Printed Name	Thomas S. Auchterlonie		
Date	July 21, 2006	Reg. No.	37,275

CERTIFICATE OF TRANSMISSION/MAILING			
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Signature		Date	

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<h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">for FY 2006</h3> <p style="font-size: small; margin: 5px 0;">Effective 2/8/2006. Patent fees are subject to annual revision.</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>		<p><i>Complete if Known</i></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Application Number</td><td>10/077,849</td></tr> <tr><td>Filing Date</td><td>February 20, 2002</td></tr> <tr><td>First Named Inventor</td><td>Babak HASSIBI et al.</td></tr> <tr><td>Examiner Name</td><td>Lawrence B. Williams</td></tr> <tr><td>Art Unit</td><td>2611</td></tr> <tr><td>Attorney Docket No.</td><td>29250-000636/US</td></tr> </table>		Application Number	10/077,849	Filing Date	February 20, 2002	First Named Inventor	Babak HASSIBI et al.	Examiner Name	Lawrence B. Williams	Art Unit	2611	Attorney Docket No.	29250-000636/US
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<p>TOTAL AMOUNT OF PAYMENT (\$) 120</p>															

<p>METHOD OF PAYMENT (check all that apply)</p> <p> <input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None </p> <p><input checked="" type="checkbox"/> Deposit Account:</p> <table style="width:100%;"> <tr> <td style="width:30%;">Deposit Account Number</td> <td>08-0750</td> </tr> <tr> <td>Deposit Account Name</td> <td>Harness, Dickey & Pierce, PLC</td> </tr> </table> <p>The Director is authorized to: (check all that apply)</p> <p> <input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. </p>				Deposit Account Number	08-0750	Deposit Account Name	Harness, Dickey & Pierce, PLC	<p>FEE CALCULATION (continued)</p>																																																																																																																																																																																																																															
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unavoidable</td><td></td></tr> <tr><td>1453</td><td>1500</td><td>2453</td><td>750</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1462</td><td>400</td><td>1462</td><td>400</td><td>Petition fee under 37 CFR 1.17(f)</td><td></td></tr> <tr><td>1463</td><td>200</td><td>1463</td><td>200</td><td>Petition fee under 37 CFR 1.17(g)</td><td></td></tr> <tr><td>1464</td><td>130</td><td>1464</td><td>130</td><td>Petition fee under 37 CFR 1.17(h)</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17 (q)</td><td></td></tr> <tr><td>1808</td><td>180</td><td>1808</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1809</td><td>790</td><td>2809</td><td>395</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>790</td><td>2810</td><td>395</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td>1801</td><td>790</td><td>2801</td><td>395</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr> <td colspan="4" style="text-align: right;">Other fee (specify)</td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">*Reduced by Basic Filing Fee Paid</td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL (3)</td> <td></td> <td>(\$)120</td> </tr> </tbody> </table>				Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	2051	65	Surcharge - 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<p>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</p> <table style="width:100%;"> <tr> <td>Total Claims</td> <td>32</td> <td>-34**</td> <td>=</td> <td>0</td> <td>X</td> <td>Fee from below</td> <td>=</td> <td>0</td> </tr> <tr> <td>Independent Claims</td> <td>4</td> <td>-4**</td> <td>=</td> <td>0</td> <td>X</td> <td></td> <td>=</td> <td>0</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>=</td> <td>0</td> </tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1202</td><td>50</td><td>2202</td><td>25</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>1201</td><td>200</td><td>2201</td><td>100</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>1203</td><td>350</td><td>2203</td><td>180</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>1204</td><td>200</td><td>2204</td><td>100</td><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>1205</td><td>50</td><td>2205</td><td>25</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL (2)</td> <td></td> <td>(\$) 0</td> </tr> </tbody> </table> <p style="font-size: x-small; margin-top: 5px;">**or number previously paid, if greater; For Reissues, see above</p>				Total Claims	32	-34**	=	0	X	Fee from below	=	0	Independent Claims	4	-4**	=	0	X		=	0	Multiple Dependent							=	0	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1202	50	2202	25	Claims in excess of 20		1201	200	2201	100	Independent claims in excess of 3		1203	350	2203	180	Multiple dependent claim, if not paid		1204	200	2204	100	** Reissue independent claims over original patent		1205	50	2205	25	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)					(\$) 0	<p>4. SEARCH/EXAMINATION FEES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1111</td><td>500</td><td>2111</td><td>250</td><td>Utility Search Fee</td><td></td></tr> <tr><td>1112</td><td>100</td><td>2112</td><td>50</td><td>Design Search Fee</td><td></td></tr> <tr><td>1113</td><td>300</td><td>2113</td><td>150</td><td>Plant Search Fee</td><td></td></tr> <tr><td>1114</td><td>500</td><td>2114</td><td>250</td><td>Reissue Search Fee</td><td></td></tr> <tr><td>1311</td><td>200</td><td>2311</td><td>100</td><td>Utility Examination Fee</td><td></td></tr> <tr><td>1312</td><td>130</td><td>2312</td><td>65</td><td>Design Examination Fee</td><td></td></tr> <tr><td>1313</td><td>160</td><td>2313</td><td>80</td><td>Plant Examination Fee</td><td></td></tr> <tr><td>1314</td><td>600</td><td>2314</td><td>300</td><td>Reissue Examination Fee</td><td></td></tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL (4)</td> <td></td> <td>(\$)0</td> </tr> </tbody> </table>				Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1111	500	2111	250	Utility Search Fee		1112	100	2112	50	Design Search Fee		1113	300	2113	150	Plant Search Fee		1114	500	2114	250	Reissue Search Fee		1311	200	2311	100	Utility Examination Fee		1312	130	2312	65	Design Examination Fee		1313	160	2313	80	Plant Examination Fee		1314	600	2314	300	Reissue Examination Fee		SUBTOTAL (4)					(\$)0																																																																																							
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<p>SUBMITTED BY</p>				<p><i>Complete (if applicable)</i></p>	
Name (Print/Type)	Thomas S. Bucktonline	Registration No. (Attorney/Agent)	37,275	Telephone	(703) 668-8000
Signature		Date	July 21, 2006		

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JUL 21 2006

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/077,849
 Filing Date: February 20, 2002
 Applicant: Babak HASSIBI et al.
 Group Art Unit: 2611
 Examiner: Lawrence B. WILLIAMS
 Title: CAYLEY-ENCODATION OF UNINTARY MATRICES FOR
 DIFFERENTIAL COMMUNICATION
 Attorney Docket: 29250-000636/US

Customer Service Window
 Randolph Building
 401 Dulany Street
 Alexandria, VA 22314
Mail Stop Amendment

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(PROPOSED) AMENDMENT UNDER 37 C.F.R. §1.111


Sir:

In reply to the non-final Office Action mailed March 24, 2006, the following amendments and remarks are submitted under 37 C.F.R. § 1.111. In view of these, Applicant requests reconsideration and further examination culminating in a Notice of Allowance.

Applicants hereby petition under the provisions of 37 C.F.R. § 1.136(a) for a one (1) month extension of time (until July 21, 2006) in which to respond to the outstanding Office Action and include a fee as set forth in 37 C.F.R. § 1.17(a) with this response for such extension of time.

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 10 of this paper.

	Claims remaining after Amendment		Highest number previously paid for		Present extra
Total	34	-	34	=	0
Independent	4	-	4	=	0